



Water-Data Report 2006

09408000 LEEDS CREEK NEAR LEEDS, UT

Lower Colorado-Lake Mead Basin
Upper Virgin Subbasin

LOCATION.--Lat 37°16'03", long 113°22'12" referenced to North American Datum of 1927, in SW ¼ SE ¼ NE ¼ sec.36, T.40 S., R.14 W., Washington County, UT, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.50 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since May 30, 1989. Elevation of gage is 4,000 ft above NGVD of 1929, from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; October 28, 1964, to August 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good. Diversion of spring area for domestic use about 4 mi upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s, Aug 3, 1988, gage height, 9.41 ft, from rating curve extended above 33 ft³/s on basis of slope-area measurement; minimum daily discharge, 0.79 ft³/s, Aug 22, 23, 25, and 26, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug 12, 1964 reached a stage of 6.00 ft, former site and datum, discharge 2,980 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 29	0530	*109	*3.69

Minimum daily discharge, 2.6 ft³/s, Sep 30.

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09408000 LEEDS CREEK NEAR LEEDS, UT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.0	6.8	6.1	5.5	4.6	4.2	7.7	7.6	9.4	7.5	4.0	2.8
2	6.9	6.8	6.1	5.2	4.5	4.1	7.0	7.6	9.6	7.8	4.0	2.8
3	7.4	6.8	6.1	5.4	4.4	4.0	6.4	7.6	9.6	6.9	3.9	2.8
4	7.7	6.8	6.1	5.2	4.4	4.0	6.2	7.8	9.5	6.9	3.9	2.8
5	7.8	6.8	5.9	5.2	4.4	4.0	7.2	8.0	9.4	6.9	4.0	2.7
6	7.8	6.8	5.8	5.2	4.4	4.0	7.2	8.1	9.6	8.4	3.8	2.8
7	7.7	6.8	5.8	5.2	4.4	4.1	7.0	7.9	9.9	7.5	3.7	2.9
8	7.6	6.8	5.8	5.0	4.3	4.2	6.8	7.8	10	7.6	3.6	3.3
9	7.6	6.8	5.7	5.0	4.2	4.2	6.8	7.6	10	7.3	3.6	3.4
10	7.6	6.8	5.6	5.0	4.2	4.2	6.8	7.3	9.7	6.7	3.6	3.1
11	7.7	7.1	5.6	5.0	4.2	4.2	6.8	7.2	9.9	6.3	3.5	3.0
12	7.7	5.9	5.6	5.0	4.2	4.3	6.7	7.1	9.8	6.0	3.6	2.8
13	7.6	5.8	5.6	5.0	4.2	4.2	6.5	7.1	9.7	5.8	3.5	2.8
14	7.5	5.8	5.5	5.0	4.2	4.3	6.9	7.0	9.8	5.6	3.4	2.9
15	7.3	6.1	5.6	5.0	4.2	4.3	8.4	7.3	9.8	5.4	3.4	2.9
16	8.0	6.1	5.9	5.0	4.2	4.3	8.0	7.4	9.6	5.2	3.3	2.9
17	7.6	6.1	5.4	4.9	4.2	4.2	7.7	7.5	9.3	5.0	3.3	2.9
18	9.4	6.1	5.6	4.8	4.2	4.3	7.7	7.6	9.0	5.0	3.2	2.9
19	8.8	6.1	5.6	4.8	4.2	4.4	7.7	7.9	8.9	4.9	3.2	2.8
20	7.8	6.1	5.6	4.8	4.1	4.4	7.6	8.1	8.7	4.8	3.1	2.9
21	7.5	6.1	5.6	4.8	4.0	4.6	7.6	8.2	8.5	4.6	3.1	2.9
22	7.3	6.1	5.4	4.8	4.0	4.5	7.3	8.4	8.5	4.4	3.0	2.9
23	7.2	6.1	5.4	4.8	4.0	4.6	7.3	8.8	7.9	4.4	3.1	2.9
24	7.0	6.1	5.4	4.7	4.0	4.8	7.3	9.0	7.7	4.3	3.0	2.9
25	6.8	6.1	5.4	4.6	4.0	5.0	7.3	8.9	7.6	4.5	3.0	2.8
26	6.8	6.1	5.4	4.6	4.0	5.0	7.3	9.0	7.3	4.5	3.0	2.7
27	6.8	6.1	5.4	4.8	4.0	5.0	7.1	9.1	7.4	4.3	3.0	2.7
28	6.8	6.2	5.3	4.7	4.5	9.4	7.1	9.4	7.3	4.3	3.0	2.7
29	6.8	6.1	5.2	4.6	---	33	7.1	9.4	7.1	4.2	2.9	2.7
30	6.8	6.1	5.2	4.6	---	10	7.5	9.3	6.9	4.1	2.9	2.6
31	6.8	---	5.2	4.6	---	8.4	---	9.3	---	4.1	2.8	---
Total	231.1	190.3	173.9	152.8	118.2	178.2	216.0	250.3	267.4	175.2	104.4	86.0
Mean	7.45	6.34	5.61	4.93	4.22	5.75	7.20	8.07	8.91	5.65	3.37	2.87
Max	9.4	7.1	6.1	5.5	4.6	33	8.4	9.4	10	8.4	4.0	3.4
Min	6.8	5.8	5.2	4.6	4.0	4.0	6.2	7.0	6.9	4.1	2.8	2.6
Ac-ft	458	377	345	303	234	353	428	496	530	348	207	171

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.11	4.22	4.64	5.80	6.87	9.31	9.67	10.8	13.4	10.8	7.04	4.62
Max	9.95	10.8	26.6	60.7	52.0	36.3	33.1	31.9	45.8	34.3	21.6	12.5
(WY)	(2005)	(1988)	(1967)	(2005)	(1980)	(1983)	(1969)	(2005)	(2005)	(1983)	(1988)	(1983)
Min	1.17	1.58	1.60	1.61	2.00	2.37	2.00	1.95	1.37	0.98	0.84	0.99
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(1977)	(2002)	(2002)	(2002)	(2002)	(2002)

09408000 LEEDS CREEK NEAR LEEDS, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006	Water Years 1965 - 2006	
Annual total	9,308.9	2,143.8		
Annual mean	25.5	5.87	7.60	
Highest annual mean			26.5	2005
Lowest annual mean			2.07	2002
Highest daily mean	593	Jan 11	593	Jan 11, 2005
Lowest daily mean	5.2	Dec 29	0.79	Aug 22, 2002
Annual seven-day minimum	5.3	Dec 25	0.79	Aug 22, 2002
Annual runoff (ac-ft)	18,460	4,250	5,510	
10 percent exceeds	43	8.4	17	
50 percent exceeds	21	5.6	4.6	
90 percent exceeds	6.1	3.1	2.3	

